



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

09/628,568

Source:

1/9/16

Date Processed by STIC:

11/24/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box-1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):  
U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby,  
Room 1B03, Arlington, VA 22202

Revised 05/17/04

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER:

09/628,568

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos     The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2      Invalid Line Length     The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering     The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4      Non-ASCII     The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length     Sequence(s)      contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"     A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)     . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7      Skipped Sequences  
    (OLD RULES)     Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence:  
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
 This sequence is intentionally skipped  
  
 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)     Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence.  
 <210> sequence id number  
 <400> sequence id number  
 000
- 9      Use of n's or Xaa's  
    (NEW RULES)     Use of n's and/or Xaa's have been detected in the Sequence Listing.  
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10      Invalid <213>  
    Response     Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence.
- 11      Use of <220>     Sequence(s)      missing the <220> "Feature" and associated numeric identifiers and responses.  
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"     Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n/Xaa     "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFW16

## RAW SEQUENCE LISTING

DATE: 11/24/2004

PATENT APPLICATION: US/09/628,568

TIME: 11:03:00

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\11242004\I628568.raw

3 <110> APPLICANT: Presta, Leonard G.  
 4 Snedecor, Bradley R.  
 6 <120> TITLE OF INVENTION: ALTERED POLYPEPTIDES WITH INCREASED HALF-LIFE  
 8 <130> FILE REFERENCE: 11669.161USC1  
 10 <140> CURRENT APPLICATION NUMBER: US 09/628,568  
 11 <141> CURRENT FILING DATE: 2000-07-31  
 13 <150> PRIOR APPLICATION NUMBER: US 08/422,112  
 14 <151> PRIOR FILING DATE: 1995-04-14  
 16 <160> NUMBER OF SEQ ID NOS: 31  
 18 <170> SOFTWARE: PatentIn version 3.3  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 8  
 22 <212> TYPE: PRT  
 23 <213> ORGANISM: Artificial  
 25 <220> FEATURE:  
 26 <223> OTHER INFORMATION: Peptide  
 28 <400> SEQUENCE: 1  
 30 His Gln Asn Leu Ser Asp Gly Lys  
 31 1 5  
 34 <210> SEQ ID NO: 2  
 35 <211> LENGTH: 8  
 36 <212> TYPE: PRT  
 37 <213> ORGANISM: Artificial  
 39 <220> FEATURE:  
 40 <223> OTHER INFORMATION: Peptide  
 42 <400> SEQUENCE: 2  
 44 His Gln Asn Ile Ser Asp Gly Lys  
 45 1 5  
 48 <210> SEQ ID NO: 3  
 49 <211> LENGTH: 11  
 50 <212> TYPE: PRT  
 51 <213> ORGANISM: Artificial  
 53 <220> FEATURE:  
 54 <223> OTHER INFORMATION: Peptide  
 56 <400> SEQUENCE: 3  
 58 Pro Lys Asn Ser Ser Met Ile Ser Asn Thr Pro  
 59 1 5 10  
 62 <210> SEQ ID NO: 4  
 63 <211> LENGTH: 98  
 64 <212> TYPE: PRT  
 65 <213> ORGANISM: Homo sapiens  
 67 <400> SEQUENCE: 4  
 69 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys

pp 1, 4-5  
 Does Not Comply  
 Corrected Diskette Needed

Insufficient explanation - give source  
 of genetic material  
 (see item 11 on  
 Error Summary  
 sheet)

same

## RAW SEQUENCE LISTING

DATE: 11/24/2004

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TIME: 11:03:00

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\11242004\I628568.raw

```

70 1          5          10          15
73 Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
74          20          25          30
77 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
78          35          40          45
81 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
82          50          55          60
85 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
86 65          70          75          80
89 Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
90          85          90          95
93 Arg Val
97 <210> SEQ ID NO: 5
98 <211> LENGTH: 98
99 <212> TYPE: PRT
100 <213> ORGANISM: Homo sapiens
102 <400> SEQUENCE: 5
104 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
105 1          5          10          15
108 Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
109          20          25          30
112 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
113          35          40          45
116 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
117          50          55          60
120 Leu Ser Ser Val Val Thr Val Pro Ser Ser Asn Phe Gly Thr Gln Thr
121 65          70          75          80
124 Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
125          85          90          95
128 Thr Val
132 <210> SEQ ID NO: 6
133 <211> LENGTH: 98
134 <212> TYPE: PRT
135 <213> ORGANISM: Homo sapiens
137 <400> SEQUENCE: 6
139 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
140 1          5          10          15
143 Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
144          20          25          30
147 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
148          35          40          45
151 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
152          50          55          60
155 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
156 65          70          75          80
159 Tyr Thr Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
160          85          90          95
163 Arg Val
167 <210> SEQ ID NO: 7

```

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Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\11242004\I628568.raw

168 &lt;211&gt; LENGTH: 98

169 &lt;212&gt; TYPE: PRT

170 &lt;213&gt; ORGANISM: Homo sapiens

172 &lt;400&gt; SEQUENCE: 7

174 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg

175 1 5 10 15

178 Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr

179 20 25 30

182 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser

183 35 40 45

186 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser

187 50 55 60

190 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr

191 65 70 75 80

194 Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys

195 85 90 95

198 Arg Val

202 &lt;210&gt; SEQ ID NO: 8

203 &lt;211&gt; LENGTH: 107

204 &lt;212&gt; TYPE: PRT

205 &lt;213&gt; ORGANISM: Homo sapiens

207 &lt;400&gt; SEQUENCE: 8

209 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu

210 1 5 10 15

213 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe

214 20 25 30

217 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln

218 35 40 45

221 Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser

222 50 55 60

225 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu

226 65 70 75 80

229 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser

230 85 90 95

233 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys

234 100 105

237 &lt;210&gt; SEQ ID NO: 9

238 &lt;211&gt; LENGTH: 105

239 &lt;212&gt; TYPE: PRT

240 &lt;213&gt; ORGANISM: Homo sapiens

242 &lt;400&gt; SEQUENCE: 9

244 Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu

245 1 5 10 15

248 Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe

249 20 25 30

252 Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val

253 35 40 45

256 Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys

257 50 55 60

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TIME: 11:03:00

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\11242004\I628568.raw

260 Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser  
 261 65 70 75 80  
 264 His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu  
 265 85 90 95  
 268 Lys Thr Val Ala Pro Thr Glu Cys Ser  
 269 100 105

272 &lt;210&gt; SEQ ID NO: 10

273 &lt;211&gt; LENGTH: 100

274 &lt;212&gt; TYPE: PRT

275 &lt;213&gt; ORGANISM: Artificial

277 &lt;220&gt; FEATURE:

278 &lt;223&gt; OTHER INFORMATION: Fab vlb variant

280 &lt;400&gt; SEQUENCE: 10

282 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Pro Lys  
 283 1 5 10 15

286 Asn Ser Ser Met Ile Ser Asn Thr Pro Ala Leu Gly Cys Leu Val Lys  
 287 20 25 30

290 Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu  
 291 35 40 45

294 Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu  
 295 50 55 60

298 Tyr Ser Leu Ser Ser Val Val Thr Val Pro His Gln Ser Leu Gly Thr  
 299 65 70 75 80

302 Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val  
 303 85 90 95

306 Asp Lys Arg Val

307 100

310 &lt;210&gt; SEQ ID NO: 11

311 &lt;211&gt; LENGTH: 7

312 &lt;212&gt; TYPE: PRT

313 &lt;213&gt; ORGANISM: Artificial

315 &lt;220&gt; FEATURE:

316 &lt;223&gt; OTHER INFORMATION: Peptide

318 &lt;400&gt; SEQUENCE: 11

320 His Gln Ser Leu Gly Thr Gln

321 1 5

324 &lt;210&gt; SEQ ID NO: 12

325 &lt;211&gt; LENGTH: 29

326 &lt;212&gt; TYPE: DNA

327 &lt;213&gt; ORGANISM: Artificial

329 &lt;220&gt; FEATURE:

330 &lt;223&gt; OTHER INFORMATION: Oligonucleotide

332 &lt;400&gt; SEQUENCE: 12

333 .gtgaccgtgc ctcaccagag cttgggcac

29

336 &lt;210&gt; SEQ ID NO: 13

337 &lt;211&gt; LENGTH: 53

338 &lt;212&gt; TYPE: DNA

339 &lt;213&gt; ORGANISM: Artificial

341 &lt;220&gt; FEATURE:

*in other words, the source of  
genetic  
material  
is  
antibody  
from what  
species?*

## RAW SEQUENCE LISTING

DATE: 11/24/2004

PATENT APPLICATION: US/09/628,568

TIME: 11:03:00

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\11242004\I628568.raw

342 <223> OTHER INFORMATION: Oligonucleotide  
 344 <400> SEQUENCE: 13  
 345 tggcaccctc ccctaagaac tcgagcatga tcagcaacac accggcctg ggc 53  
 348 <210> SEQ ID NO: 14  
 349 <211> LENGTH: 11  
 350 <212> TYPE: PRT  
 351 <213> ORGANISM: Artificial  
 353 <220> FEATURE:  
 354 <223> OTHER INFORMATION: Peptide  
 356 <400> SEQUENCE: 14  
 358 Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala  
 359 1 5 10  
 362 <210> SEQ ID NO: 15  
 363 <211> LENGTH: 13  
 364 <212> TYPE: PRT  
 365 <213> ORGANISM: Artificial  
 367 <220> FEATURE:  
 368 <223> OTHER INFORMATION: Peptide  
 370 <400> SEQUENCE: 15  
 372 Ser Pro Lys Asn Ser Ser Met Ile Ser Asn Thr Pro Ala  
 373 1 5 10  
 376 <210> SEQ ID NO: 16  
 377 <211> LENGTH: 34  
 378 <212> TYPE: DNA  
 379 <213> ORGANISM: Artificial  
 381 <220> FEATURE:  
 382 <223> OTHER INFORMATION: Oligonucleotide  
 384 <400> SEQUENCE: 16  
 385 tggcaccctc caaatcgagc atcacagcgg ccct 34  
 388 <210> SEQ ID NO: 17  
 389 <211> LENGTH: 9  
 390 <212> TYPE: PRT  
 391 <213> ORGANISM: Artificial  
 393 <220> FEATURE:  
 394 <223> OTHER INFORMATION: Peptide  
 396 <400> SEQUENCE: 17  
 398 Ser Ser Lys Ser Thr Ser Gly Gly Thr  
 399 1 5  
 402 <210> SEQ ID NO: 18  
 403 <211> LENGTH: 6  
 404 <212> TYPE: PRT  
 405 <213> ORGANISM: Artificial  
 407 <220> FEATURE:  
 408 <223> OTHER INFORMATION: Peptide  
 410 <400> SEQUENCE: 18  
 412 Ser Lys Ser Ser Ile Thr  
 413 1 5  
 416 <210> SEQ ID NO: 19  
 417 <211> LENGTH: 44

*Please correct this type of  
error in subsequent sequences.*

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/628,568

DATE: 11/24/2004  
TIME: 11:03:01

Input Set : A:\Sequence Listing.txt  
Output Set: N:\CRF4\11242004\I628568.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31



VERIFICATION SUMMARY

PATENT APPLICATION: US/09/628,568

DATE: 11/24/2004

TIME: 11:03:01

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\11242004\I628568.raw